

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of monitoring the integrity of a flexible pipe used for transporting a pressurized fluid in a terminal end-fitting of the pipe, wherein the [[,]] said pipe ~~comprising, in particular,~~ comprises at least an internal pressure sheath, plies of tensile armor wires and an outer sheath fastened to the end-fitting[[,]];

~~which~~ the method comprising:

~~consists in~~ monitoring the integrity of the tensile armor plies in the end-fitting by monitoring ~~the~~ a change in the twist in the flexible pipe near the end-fitting the twist change being a as phenomenon associated with the disorganization of the armor plies as a result of a fracture of several tensile armor wires inside the end-fitting.

2. (Currently Amended) The method as claimed in claim 1, further comprising monitoring ~~wherein~~ the twist in the flexible pipe ~~is monitored by means of~~ at least one strain gauge placed on the external sheath of the pipe.

3. (Currently Amended) The method as claimed in ~~either of claims 1 and 2~~ for monitoring ~~a flexible pipe, claim 1, wherein~~ the end-fitting ~~of which also~~ includes a gas drainage valve, and the monitoring comprising ~~which method consists in~~ monitoring the quantity of gas escaping from the valve.

4. (Currently Amended) The method as claimed in claim 3, wherein this monitoring is ~~performed by~~ comprises measuring the variation in at least one of the discharge frequency ~~and/or and~~ in the discharge time of the gas.

5. (Currently Amended) A device for monitoring the integrity of a flexible pipe for transporting a pressurized fluid at a terminal end-fitting of the pipe,

~~said~~ the pipe comprising ~~in particular~~ at least an internal pressure sheath, plies of tensile armor wires and an outer sheath that are fastened to the end-fitting[[,]]

~~which device comprises means~~ a monitor operable for monitoring ~~the~~ a change in a phenomenon associated with ~~the~~ disorganization of the armor plies as a result of a fracture of several tensile armor wires inside the end-fitting, ~~these monitoring means~~ the monitor being operable to detect ~~means for detecting~~ an increase in the twist in the pipe near the end-fitting.

6. (Currently Amended) The device as claimed in claim 5, wherein the monitor ~~said means~~ for detecting an increase in the twist in the pipe comprise strain gauges at the pipe.

7. (Currently Amended) The device as claimed in claim 6, wherein the strain gauges comprise ~~are in the form of~~ Bragg grating optical fibers.

8. (Currently Amended) The device as claimed in ~~any one of claims 5 to 7~~ claim 5, wherein ~~said monitoring means include~~ the monitor includes a computing unit that can generate an alarm depending on ~~the~~ anomalies the monitor detects ~~detected~~.